



Customized Dimensions CNC Machining Aluminum Die Casting Auto Motor Parts with CT7 Tolerance Grade

Our Product Introduction

for more products please visit us on aluminumextrusion-profiles.com

Basic Information

- Certification: ISO 9001:2000
- Minimum Order Quantity: 100
- Price: 1.99



Product Specification

- Material: Aluminum Alloy
- Tolerance Grade: 7
- Surface Roughness: Ra 12.5um
- Weight Range: 0.1-100kg
- Max Linear Size: 1200mm
- Max Diameter Size: 600mm
- Machining Precision: 0.008mm
- Reposition Accuracy: 0.006mm
- Machining Roughness: Ra0.8~6.3um
- Max Spindle Travel: 1800mmx850mmx700mm
- Max Turning Diameter: 1000mm
- Casting Process: High Pressure Die Casting (HPDC), Vertical Low Pressure Die Casting (LPDC), Precision Sand Casting, Lost Foam Casting, Investment Casting
- Surface Treatment: Electroplating, Chrome Plating, Zinc Plating,



More Images



Product Description

Auto Motor Parts Volute Aluminum Housing Stainless Steel Casting

Metalplus specializes in aluminum industrial profile design and manufacturing with a production base of more than 100,000 square meters and annual capacity exceeding 100,000 tons.

Aluminum Profile	Aluminum Fan Blade Profiles
Aluminum Profile System	
Aluminum Extrusion Enclosure	
LED Aluminum Extrusion Profiles	Die Casting
Aluminum Frame	Die Casting Led Housing
Customized Aluminum Profile	Stainless Steel Casting
Aluminum Heat Sink	Aluminum Casting
Electric Motor Housing Aluminum profile	ACP Aluminum Composite Panel
Construction Aluminum Profile	
Aluminum Extrusion Tube	

Product Description

Aluminum is the most frequently used material for aluminum castings to produce lightweight parts. The basic principle of low pressure casting of aluminum alloy is to make the liquid aluminum alloy fill the aluminum mold and undergo the entire solidification process under low working pressure (0.06 ~ 0.15MPa) to obtain high quality casting.

Precision die casting parts are widely used in hardware parts, auto motor parts, machinery parts, medical equipment, and various industrial applications.

Specifications

Material	Aluminum Alloy, Carbon Steel, Alloy Steel, Stainless Steel
Process	Drawings → Mould Making → Die Casting → Rough Machining → CNC Machining → Surface Treatment → Product Checking → Packing → Delivery
Casting dimension tolerance	CT7-CT8
Casting surface roughness	Ra 12.5um
Casting weight range	0.1-100kg
Casting Size	Max linear size: 1200mm, Max diameter size: 600mm
Machining Precision	Positioning accuracy 0.008mm, Rep. position. accuracy 0.006mm
Machining surface roughness	Ra0.8~6.3um
Max Travel Of Spindle	1800mm x 850mm x 700mm
Max Turning Diameter	1000mm
Material standard	GB, ASTM, AISI, DIN, BS, JIS, NF, AS, AAR
Surface treatment	Electroplating, Chrome Plating, Zinc Plating, Nickel plating, Electrophoresis, Anodization, Polishing, Powder coating, Sandblasting, Passivation, Spray painting, Etc.

Casting Process Type	High Pressure Die Casting (HPDC), Vertical Low Pressure Die Casting (LPDC), Precision Sand Casting, Lost Foam Casting, Investment Casting, Metal casting
Service available	OEM & ODM
Quality control	0 defects, 100% inspection before packing
Application	Train & railway, automobile & truck, construction machinery, forklift, agricultural machinery, shipbuilding, petroleum machinery, construction, valve and pumps, electric machine, hardware, power equipment
MOQ	1 TONS
Payment terms	T/T, L/C at sight
Port	SHANGHAI PORT

Our Advantages

We export the majority of our customized products to the United States and Europe, where our customers have become regular clients. With our extensive experience in this field, we can easily satisfy customers' needs.

- More than 17 years of manufacturing experience in Aluminum Extrusion
- Strong design and manufacturing capabilities including Extrusion, CNC machining, Milling, and Turning with fast turnaround
- Complete metal processing machines including laser cutting, CNC bending, welding, and stamping
- Comprehensive quality control throughout the manufacturing process for long-term stability and excellent quality

Technical Support

- Based on customer requirements, we design extruded profile appearances, provide CAD drawings and 3D models for confirmation, customize molds, and extrude aluminum profiles that meet specifications
- For customers with design capabilities, our professional R&D team analyzes and optimizes designs based on customer drawings and our extrusion processing experience
- Comprehensive "one-stop" service including product design, custom molds, aluminum bar melting and casting, extrusion profiling, precision machining, and surface treatment

Factory Equipment

Extrusion

Equipped with 44 aluminum extrusion lines, MetalPlus produces various standards of commercial and industrial aluminum profiles with maximum outer diameter of 350mm. Our largest extruder is a 6800 ton unit capable of producing industrial profiles up to 600mm diameter.

Anodizing

MetalPlus has 6 anodizing production lines producing profiles with uniform oxidation film thickness and color. Available colors include silver, black, gold, champagne, and imitation steel, with custom colors available upon request.

Painting

Our factory is equipped with 4 powder spraying lines using high-quality spray nozzles from Gema Switzerland and environmentally friendly paint with strong adhesive force and durable color retention.

CNC Machining

MetalPlus is equipped with advanced machining equipment operated by experienced technicians:

- 12 PRATIC machining centers for milling, drilling, and tapping of profiles up to 6 meters
- Fully automatic cutting machines from Wegoma for precise cutting with automatic material feeding
- 30 punching machines with pressure from 50 to 100 tons for thick profiles over 5mm
- 10 stretch bending machines for precise profile bending
- 10 milling machines for various machining requirements

Packing & Shipping

Finished products are packaged manually and ready for delivery. MetalPlus adopts strict warehouse management procedures with organized storage sections and comprehensive transaction recording.

Company History

- 2004: Recognized brand of the building industry material market
- 2006: Certificate for product exemption from quality surveillance inspection and ISO9001
- 2009: Advanced Company, Jiangsu Famous Brand Certificate, Credible Product of Quality in Jiangsu Province
- 2012: Established business relationship with Panasonic, LG
- 2015: Innovative producer and supplying partner for European clients
- 2017: Developed new products of baseboard heaters
- 2019: Cooperated with world's largest heater manufacturers, supplying aluminum shells
- 2023: Expanding overseas distributor network for win-win benefits

Project Highlights

Soccer City Stadium, Johannesburg: We participated as the main aluminum supplier for this 94,000-seat stadium, the largest capacity stadium in Africa.

Lobster Trailers: We cooperate with this Nordic trailer giant, providing design optimization and manufacturing services to minimize production costs and improve product performance.

School Project: We supplied aluminum legs for school desks, helping local customers win project bids with our strong design capabilities and mature technology.

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